Speech Token Spectrograms

Spectrograms for individual tokens.

Each page has spectrograms for all the tokens for one speaker for one consonant, labeled at the top.

Within a page tokens are organized so each row has all tokens for that consonant-vowel pair, labeled on the left of the page.

Numbering of speakers and tokens is consistent with that used in the paper.

Spectrograms were generated with a 128-sample hamming window with 64-sample steps and 2000 ft points in MATLAB 2017b:

spectrogram(b, hamming(128).', 64, 2000, fs, 'yaxis', 'MinThreshold', -120)
Speaker 1, /b/

Token 1

Token 2

Token 3

Time (ms)

Frequency (kHz)

Vowel: I

Vowel: a

Vowel: o
Speaker 2, /g/
Speaker 3, /b/

Token 1

Vowel: I

Frequency (kHz)

Token 2

Vowel: a

Frequency (kHz)

Token 3

Vowel: ae

Frequency (kHz)

Vowel: e

Frequency (kHz)

Vowel: o

Frequency (kHz)

Vowel: u

Frequency (kHz)

Time (ms)
Speaker 3, /g/

Token 1

Token 2

Token 3

Vowel: I
Frequency (kHz)

Vowel: a
Frequency (kHz)

Vowel: ae
Frequency (kHz)

Vowel: e
Frequency (kHz)

Vowel: o
Frequency (kHz)

Vowel: u
Frequency (kHz)

Time (ms)
Speaker 5, /b/
Speaker 5, /g/